

## Abstract

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5 Known devices for measuring the mass of a flowing medium with a temperature-dependent measurement element have a tapered measurement conduit with side faces that become steadily thicker opposite from a surface of the measurement element. In the manufacturing of the measurement conduit, due to material accumulations, imprecisions can occur in the embodiment of the side faces, which produces a disadvantageous influence on the measurement result.

10 In order to produce a properly-manufactured housing, the device (1) has a measurement conduit (30) whose faces (37, 38), which extend perpendicular to a surface (24) fixed by the measurement element (21), are inclined and approach each other in the flow direction (43) of the medium in the measurement conduit (30).

15 The invention is provided for measuring the mass of a flowing medium, in particular to measure the intake air mass of internal combustion engines.

(Fig. 1)